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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/693,798 10/		0/19/2000 Leslie V. Niles		5465	8692	
758	7590	02/27/2004		EXAMINER		
FENWICK			SON, LINH L D			
SILICON V 801 CALIFO			ART UNIT	PAPER NUMBER		
MOUNTAI			2135	4		
			DATE MAILED: 02/27/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

			<u> </u>	ppe	1				
		Applicati	on No.	Applicant(s)	,				
Office Action Summary		09/693,79	98	NILES, LESLIE V.					
		Examin I		Art Unit					
		Linh LD S		2135					
Period fo	The MAILING DATE of this communi or Reply	cation appears on the	cover sheet with the	e correspondence ado	Iress				
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (30 period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months a end patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evunication.)) days, a reply within the stat tutory period will apply and wwill, by statute, cause the apply.	ent, however, may a reply be utory minimum of thirty (30) o ill expire SIX (6) MONTHS fro lication to become ABANDO	e timely filed days will be considered timely. om the mailing date of this cor NED (35 U.S.C. § 133).	nmunication.				
Status									
1)⊠	Responsive to communication(s) file	d on <u>10/19/00</u> .							
2a) <u></u> ☐	☐ This action is FINAL . 2b) ☑ This action is non-final.								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-33 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any objected to Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or b) ction to the drawing(s) I the correction is requir	oe held in abeyance. Seed if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CF					
Priority (ınder 35 U.S.C. § 119								
12) <u> </u>	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internationsee the attached detailed Office actions.	documents have bee documents have bee of the priority documenal Bureau (PCT Ru	en received. en received in Applic ents have been rece le 17.2(a)).	ation No sived in this National S	Stage				
2) Notice 3) Information	et(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449 or tr No(s)/Mail Date		4) Interview Summa Paper No(s)/Mai 5) Notice of Informa 6) Other:		-152)				

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DETAILED ACTION

Drawings

New corrected drawings are required in this application because Figures 1-4A
have handwriting labels. The requirement for corrected drawings will not be held
in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9 and 10 recite the limitation "sequence number" in claim 8. There is insufficient antecedent basis for this limitation in the claim. Examiner will assume that the inventor referring the "sequence number" claimed in claim 2. Otherwise, applicant needs to provide appropriate correction.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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- 4. Claims 1-2, 6-14, 16-19, and 23-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Dietz et al (US/6651099).
- 5. As per claim 1, Dietz et al disclose a method for providing a unique identification of monitored network data instances flowing across various connections between networked devices, the unique identification being derived from information contained entirely within each instance of the network data, the method comprising: using at least one monitoring device to monitor a network data instance flowing across at least one data connection (Col 8 line 64 and Fig 1); deriving from the data instance certain information which collectively provides a unique identification (Col 13 lines 20-22) of the network data instance; assembling the derived information into an input string for a hash function (Col 13 lines 1-29); and using the output string of the hash function as a signature which represents a unique identifier of the network data instance (Col 13 lines 30-36).
- As per claims 2 and 19, Dietz et al disclose the method according to Claims 1 and 18, wherein the deriving step includes: deriving from the data instance a source and destination address for the data (Col 9 lines 58-67 and Col 10 lines 1-7); deriving from the data instance a source and destination port associated with the networked devices (Col 10 lines 8-22); deriving from the data instance at least one sequence number associated with data instance (Col 13 lines 30-33). The hash output string is the sequence number.

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- 7. As per claims 6 and 23, Dietz et al disclose the method according to Claims 1 and 18, wherein network data instances are data packets as part of a TCP/IP (Transmission Control Protocol/Internet Protocol) client-server network (Col 8 lines 57-67).
- 8. As per claims 7 and 24, Dietz et al disclose the method according to Claims 6 and 23, wherein the source and destination addresses include a client IP address and a server IP address. The source and destination addresses include a client IP address and a server IP address is inherent in a TCP/IP network. It is well known in the art that the IP data packet has the source and destination address in the header.
- 9. As per claims 8 and 25, Dietz et al disclose the method according to Clams 7 and 24, wherein the source and destination port of a client port number and a server port number is also inherent in a TCP/IP network. It is well known in the art that the IP data packet has the source and destination ports associate to the protocol in the header.
- 10. As per claims 9 and 26, Dietz et al disclose the method according to Claims 2, wherein the at least one sequence number includes a client sequence number or a server sequence number (Col 12 lines 13-22). It is well know in the art that the

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protocol type associates with a port number of the source and destination, which is interpreted a sequence number.

- 11. As per claims 10 and 27, Dietz et al disclose the method according to Claims 9 and 26, wherein the at least one sequence number includes both a client sequence number and a server sequence number (Col 12 lines 13-22). It is well known in the art that the protocol type associates with a port number of the source and destination, which is interpreted a sequence number.
- 12. As per claims 11 and 28, Dietz et al disclose the method according to Claims 2 and 19, wherein the input string information does not include sequence numbers. The input string is the length of the header (Col 13 lines 3-4) and the sequence number is the port number associated to the protocol communication between the client and the server (Col 12 lines 13-22).
- 13. As per claims 12 and 29, Dietz et al disclose the method according to Claims 11 and 28, wherein the network data instances are datagrams as part of a UDP/IP (User Datagram Protocol/Internet Protocol) network (Col 9 line 44).
- 14. As per claims 13 and 30, Dietz et al disclose the method according to Claims 1 and 18, which further includes: truncating the signature to include fewer bits than the hash function output string (Col 17 line 13 and lines 7-19).

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15. As per claims 14 and 31, Dietz et al disclose the method according to Claims 1 and 18, which further includes: adding flag bits to the signature which indicate the type of application associated with the network data instance (Col 17 line 47 and lines 29-47).

- 16. As per claim 16, Dietz et al disclose the method according to Claim 1, wherein the monitoring device operates to directly monitor the network data (108, Fig 1)
- 17. As per claim 17, Dietz et al disclose the method according to Claim 1, wherein the monitoring device operates to indirectly monitor the network data (Col 28 lines 56-64). SNMP is used to send the network data of the device to the packet acquisition device of the monitor.
- 18. As per claim 18, Dietz et al disclose an apparatus for providing a unique identification of monitored network data instances flowing across various connections between networked devices, the unique identification being derived from information contained entirely within each instance of the network data, the apparatus comprising: at least one monitoring device positioned to monitor a network data instance flowing across at least one data connection (Col 8 line 64 and Fig 1); a hash function device having an input string and an output string, the input string assembled from certain information derived from the network data

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instance, the information collectively providing a unique identification of the network data instance; wherein the output string is used as a signature which represents a unique identifier of the network data instance.

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Claim Rejections - 35 USC § 103

- 19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- 20. (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.
 Patentability shall not be negatived by the manner in which the invention was made.
- 21. Claims 3-5, 15, 20-22, 32, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dietz et al (US-6651099).
- 22. As per claims 3, 4, 20, and 21, Dietz et al disclose the method according to Claims 1 and 18, which further includes: attaching the signature to at least one data report associated with the network data instance (Col 20 lines 40-60); However, Dietz et al do not disclose the transmitting data reports and signatures from each monitoring device to a central collecting device. Nevertheless, Dietz et al do teach the monitor the device being part of a network (Fig 1), which is capable to transmit and receive data from any workstations or network devices.

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It is obvious to one ordinary skill in the art at the time the invention was made that data transmitting from remote device to a central collecting and well know in the art.

- 23. As per claims 5 and 22, Dietz et al disclose the method according to Claims 3 and 20. However, Dietz et al do not mention the central collecting device uses the signatures to eliminate duplicate data reports that might come in from different monitoring devices positioned at different locations on the network. Nevertheless, this feature is obvious to one ordinary skill in the art at the time the invention was made to recognize that the data reports coming from different devices will have different signatures, since the signature is composing of protocol, ip addresses of the source and destination (Col 13 lines 30-35).
- 24. As per claims 15 and 32, Dietz et al disclose the method according to Claims 3 and 20. However, Dietz et al do not mention the monitor serves as a data reduction device for data report and signature information being sent to the central data collector. Nevertheless, Dietz et al do teach the input string truncation to reduce the signature (Claim 13) (Col 17 line 13 and lines 7-19). It is obvious to one ordinary skill in the art at the time the invention was made to recognize that the monitor device can also be the data reduction device for the data report and signature.

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25. As per claim 33, Dietz et al disclose method for providing a unique signature of monitored network data packets flowing across various connections between networked devices, the unique signature being derived from information contained entirely within each instance of the network data packet, the method comprising: using at least one monitoring device to monitor a network data packet flowing across at least one data connection (Col 8 line 64 and Fig 1); deriving from the data packet a source and destination address for the data is inherent in a TCP/IP network; deriving from the data packet a source and destination port associated with the networked devices is inherent in a TCP/IP network; deriving from the data packet at least one sequence number associated with data instance (Col 13 lines 28-29); assembling the derived addresses, ports, and at least one sequence number information into an input string for a hash function (Col 13 lines 20-29); and using the output string of the hash function as the signature which represents a unique identifier of the network data packet (Col 13 lines 30-35); attaching the signature to at least one data report associated with the network data packet (Col 20 lines 40-60); and Since the statistical information is stored in a database, the transmitting the data reports and signatures from each monitoring device to a central collecting device for analysis is well known in the art. Transmitting information from numerous devices to a central collector is well known. It is obvious to one ordinary skill in the art at the time the invention was made to know that that the IP data packet has the source and destination address in the header, the IP data packet has the source and

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destination ports associate to the protocol in the header, and transmits information from numerous devices to a central collect.

Conclusion

- 26. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 27. Any inquiry concerning this communication from the examiner should be directed to Linh Son whose telephone number is (703)-305-8914.
- 28. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Kim Y. Vu can be reached at (703)-305-4393. The fax numbers for this group are (703)-872-9306 (official fax). Any inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703)-305-9600.

Linh LD Son

Patent Examiner